

## **ABSTRACT OF THE DISCLOSURE**

A system and method for controlling and maintaining decryption keys used in wireless network analyzers on secure wireless networks. In the wireless network, each access point operates on its own channel. Multiple access points can be grouped together into a single Extended Service Set (ESS). Each ESS uses at least one and possibly many unique keys or keysets. A profile is established containing all keysets that an engineer would like to include. The profile can include keysets from multiple ESSs, and even from different company networks. The profile is stored on the network in an encrypted form that can only be viewed through the network analyzer software. The network engineer can access and apply keysets from the keyset profile as needed in order to initiate analysis of data that has been captured from a wireless network without being required to manually enter the character strings that represent the keys.

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